

Fig. 1

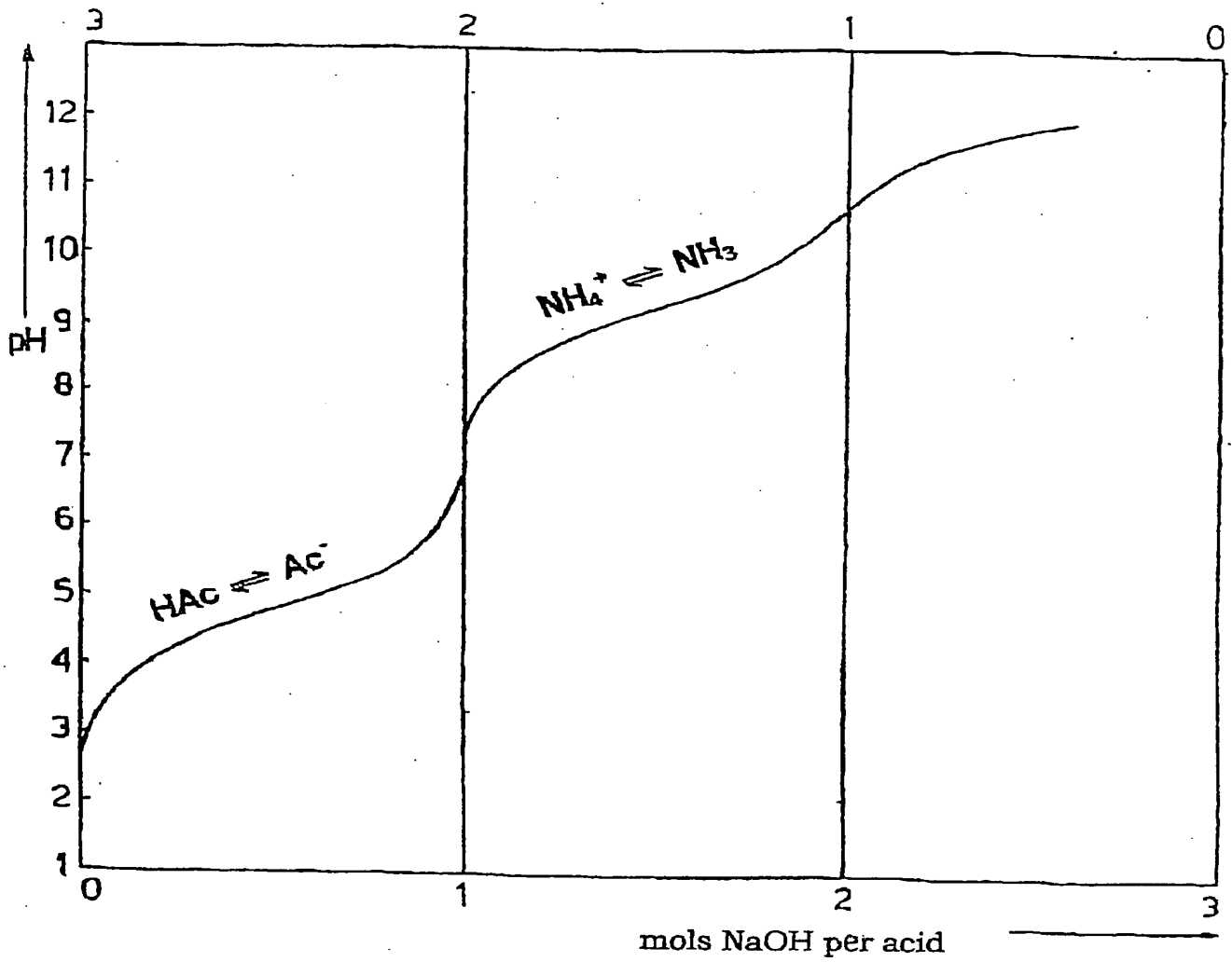


Fig. 2

Name

Formula

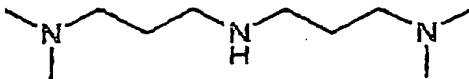
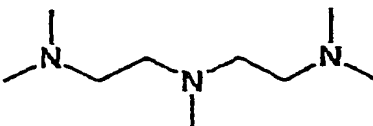
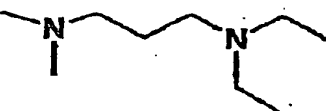
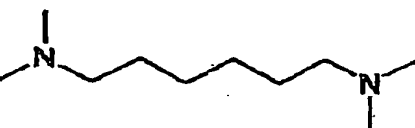
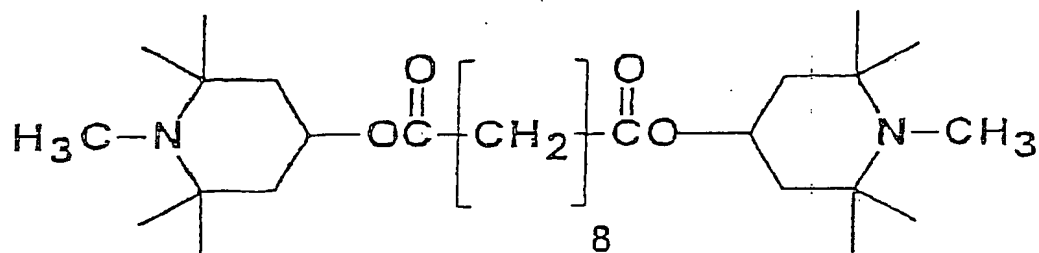
bis(3-dimethylamino-
propyl)aminepentamethyldiethylene
triamineN,N,N',N'',N'''-penta-
methyldipropylene
triamineN,N-diethyl-N',N'-di-
methyl-1,3-propane
diamineN,N,N',N'-tetramethyl-
1,6-hexane diamineN,N,N',N'-tetramethyl-
1,3-propane diamineN,N,N',N'-tetramethyl-
4,4'-diaminodicyclo-
hexylmethane

Fig. 3

Chemical name	Appearance at 25°C	Tertiary amine %	Prim. + sec. amine %
Dodecyldimethylamine, distilled	liquid	> 98	< 2
Tetradecyldimethylamine, distilled	liquid	>98	< 2
Hexadecyldimethylamine, distilled	liquid	>98	< 2
Octadecyldimethylamine, distilled	liquid	>98	< 2
Cocodimethylamine, distilled	liquid	>98	< 2
Cocodimethylamine, distilled, (fractionated coco-alkyl)	liquid	>98	< 2
Tallowdimethylamine, distilled	liquid	>98	< 2
Tallowdimethylamine, distilled, (hydrogenated tallow-alkyl)	liquid	>98	< 2
Oleyldimethylamine, distilled	liquid	>96	< 4
N-Cocomorpholine, distilled	liquid		
Dicocomethylamine	liquid	>96	< 4

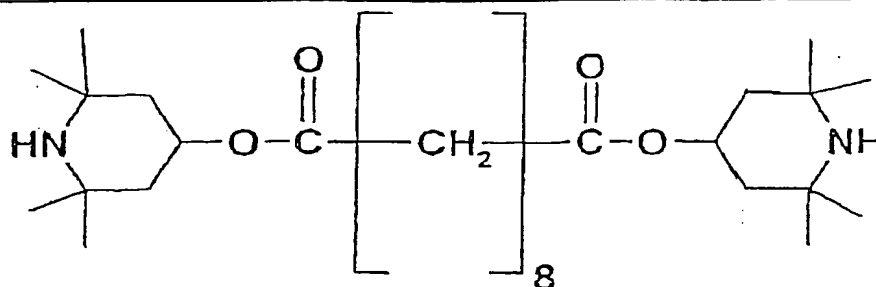
Fig. 4

TINUVIN 765



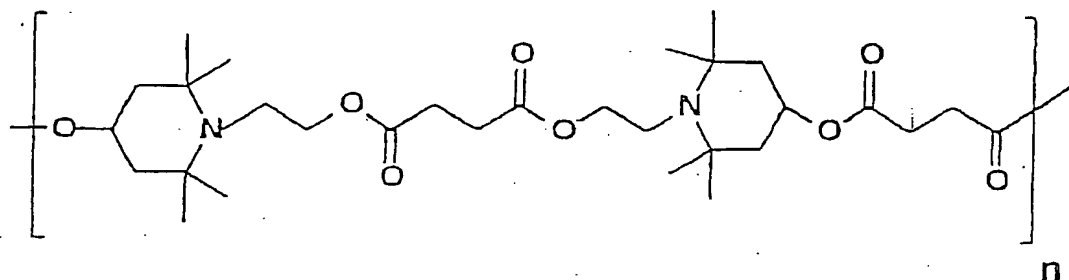
Mw = 508, Mp = liquid
CAS : 41556-26-7
82919-37-7

TINUVIN 770



Mw = 481, Mp = 81-85°C
CAS : 52829-07-9

TINUVIN 622



Mw = >2500, Mp = 55-70°C
CAS : 65447-77-0

Fig. 5

Table 1

Test No.	1 comp.	2 comp.	3 comp.	4 comp.	5	6	7 comp.	8	9 comp.	10 comp.
Desactivators for the liquid catalyst (FK)										
Irganox 1310	0.97									
Licowax S		1.40								1.40
Surlyn 9320			7.0			7.0	7.0	7.0	7.0	7.0
Lucalen 2920				7.0						
Irgacor L190					0.55			0.55		
Armeen DM16D						1.0				
Armeen HT							0.5			
dodecanedioic acid									0.4	
Testing with respect to degradation behaviour										
r. V direct from extruder	2.046	2.065	2.061	2.097	2.111	2.073	1.943	2.076	2.031	1.995
r. V. melting cone 4 min.	1.937	1.925	2.048	2.089	2.052	2.056	1.884	2.024	1.940	1.884
r. V. melting cone 10 min.	1.855	1.827	2.052	2.075	2.075	2.023	1.826	2.008	1.889	1.813
MVI after										
melting time 4 min.	51.3	62.8	16.2	18.5	28.9	25.7	62.6	27.5	39.9	56.1
melting time 10 min.	90.0	109.2	20.7	15.0	32.8	27.5	85.2	29.5	61.2	88.3

Fig. 6

Table 1b

Test No.	X comp.	5	6	7 comp.	8
0.2% water added					
MVI 4 min.	94	51	58	86	44
MVI 10 min.	190	70	77	204	62
0.5% water added					
MVI 4 min.	198	103	74	153	58
MVI 10 min.	272	220	155	307	93
r. V. after 4 min. respectively					
0.20% water	1.856	1.978	1.847	1.789	1.923
0.50% water	1.777	1.869	1.852	1.754	1.915

Fig. 7

Table 2

Test No.	11	12	13	14	15
PG.N	180	200	220	240	200
Temp. setting polyzone, °C	250	260	260	265	
Analytics					
c) r. V. polymer	1.978	2.051	2.212	2.301	
d) r. V. after extrusion with addition of V. 1	1.896	1.961	2.094	2.187	1.941
MVI polymer	65	104	39	62	
MVI after re-extrusion	63	48	26	16	51
Viscosity drop during the MVI measurement					
delta r. V. samples c)	0.103	0.255	0.252	0.409	
delta r. V. samples d)	0.039	0.055	0.080	0.101	0.013